

# Operations Rehearsal Scenarios and Daily Activities/ Timelines at LDAAC for a day in the life of a DAAC

(June '98)

## MISR, MOPITT and (CERES) Operations Scenarios

### The Daily Activities and Time Lines

The Daily Activities and time lines are based on the OPS Rehearsal Certification test plans, the EGS series of tests, which will be performed on the LDAAC at Launch minus thirty days.

No	Task/activity/operation	Criticality	Relevant ICT Tests	Related EGS Tests	Relevant operational rehearsal plan test scenarios	Operations Scenario Environment	Number of operations/ day	Remarks
1	System start-up or re-start	LC		(EGS7, EGS10, EGS 11)	L-LC-20	System Management Failure during start up	Once or as needed	
2	Generation of daily / weekly (?) operations plans	LC		EGS10, EGS11	L-LC32	Science operations Standard planning	Daily/ weekly or as needed	
3	Production Planning resource planning, (Cross DAAC Plan coordination)	LC		EGS10, EGS11	L-LC-32	Science operations, System stress Standard production,	Once or as needed	Cross DAAC Plan coordination after launch?
4	Ingest and Archive Expedited Data from CERES	LC	ICT3	EGS10, EGS11	L-LC-1	Science operations L0 and ancillary data ingest	Variable	
5	Ingest and Archive Expedited Data from MOPITT	LC	ICT3	EGS10, EGS11	L-LC-3	Science operations L0 and ancillary data ingest	Variable	
6	Ingest and Archive Expedited Data from MISR	LC	ICT3	EGS10, EGS11	L-LC-2	Science operations L0 and ancillary data ingest	Variable	
7	Ingest and Archive L0 Data from CERES .	LC	ICT3	EGS10, EGS11	L-LC-1	Science operations L0 and ancillary data ingest	(or once a day)	Data are available at EDOS every two hours
8	Ingest and Archive L0 Data from MOPITT.	LC	ICT3	EGS10, EGS11	L-LC-3	Science operations L0 and ancillary data ingest	every two hours	Data are available at EDOS every two hours
9	Send MOPITT L0 data to MOPITT SCF	LC	ICT1	EGS10, EGS11			Every two hours	

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10	Ingest and Archive L0 Data from MISR	LC	ICT3	EGS10, EGS11	L-LC-2	Science operations L0 and ancillary data ingest	every two hours	Data are available at EDOS every two hours
11	Cross DAAC data transfer Ingest and Archive MODIS subsetted data from GSFC (TBD)	LC		EGS10, EGS11	L-LC-30 L-LC-37 for MODIS data (TBD)	Science operations L0 and ancillary data ingest	Once a day or as needed	Ancillary data to be identified Requirement is TBD
12	Ingest and Archive external ancillary data for MISR product generation (TBD)	LC	? ICT4 ??	EGS10, EGS11	L-LC-5	Science operations L0 and ancillary data ingest	once or as needed	Ancillary data to be identified
13	Ingest and Archive MOPITT products from MOPITT SCF	LC	ICT1	EGS10, EGS11	L-LC-8	Science operations L0 and ancillary data ingest	Once or as needed	Ancillary data to be identified
14	Data product generation for MISR	LC		EGS10, EGS11.	L-LC-7	Science operations Standard processing	Once every orbit for Level 1 Products	Some PGEs once a Week
15	DAAC QA/QC and archive for MISR products	LC		EGS10, EGS11	L-LC-36	Science operations on site QA	Once every orbit	
16	MISR Science QA at SCF	LC	ICT1	EGS10, EGS11	L-LC-15	Science Operations	As required	
17	Inventory update and advertise for archived data products	LC		EGS10	( Part of ingest and archive scenarios)	Science operations Advertising Service	Variable	
18	Error handling in ingest, product generation and archive	LC		EGS 10	( Part of ingest and archive scenarios)	Science operations System management SMC unattended Operations	As required	
19	User access, System Security	LC		EGS10, EGS11, EGS7	L-LC-24	User services Restricted data access	Variable (100 / hour ?)	
20	Search, Browse (CERES MOPITT, and MISR data or similar data)	LC		EGS10 EGS11	L-LC-16, L-LC-17, L-LC-18,	(User services ) primarily user operations	Variable	

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No	Task/activity/operation	Criticality	Relevant ICT Tests	Related EGS Tests	Relevant operational rehearsal plan test scenarios	Operations Scenario Environment	Number of operations/ day	Remarks
21	Product orders (LaRC specific) Standing orders/ one time orders	LC		EGS10 EGS11	L-LC-16, L-LC-17, L-LC-18,	User services Order processing	Variable	
22	Data distribution (From LaRC) -by network	LC		EGS10 EGS11	L-LC-16, L-LC-17, L-LC-18,	Science operations Data distribution	Variable	
23	Data distribution (From LaRC) -by electronic media	LC		EGS10 EGS11	L-LC-16, L-LC-17, L-LC-18,	Science operations Data distribution	Variable	
24	System management activities, trouble ticketing, Reports generation	LC		EGS10	L-LC-20, L-LC-31	System management	Variable	
25	Operations, Test and Mode management	LC		TBD	L-LC-25	System Management	As needed	
26	User support (help line)			EGS10 ?	??	User services general inquiry	Variable	
27	ESDT addition / modification	LC		EGS 10	L-LC-22		As needed	
28	Processing Science algorithm processing Change	LC		TBD	L-LC-21		As needed	
29	SSI&T for new PGE	LC		TBD	L-LC-26		As needed	

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## MISR, MOPITT and (CERES) Operations Scenarios

### Time Lines

#	Task/Activity/Operation	Number of operations / day <sup>1</sup>	Scenairo/ Test case	24 Hour Operations Period ( EST )																							
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	System start-up or re-start	Once or as needed	LC-20																								
2	Generation of daily/weekly operations plans	Daily/ Weekly or as needed	LC-32																								
3	Production Planning, resource planning, (Cross DAAC Plan coordination)	Once or as needed.	LC-32																								
4	Ingest and Archive Expedited Data from CERES	Variable	LC-1																								
5	Ingest and Archive Expedited Data from MOPITT	Variable	LC-3																								
6	Ingest and Archive Expedited Data from MISR	Variable	LC-2																								
7	Ingest and Archive L0 Data from CERES .	( Once a day)	LC-1																								
8	Ingest and Archive L0 Data from MOPITT.	Every two hours	LC-3																								
9	Send MOPITT L0 Data to MOPITT SCF	Every Two hours	LC-12																								
10	Ingest and Archive L0 Data from MISR	Every two hours	LC-2																								

- Column 2, Task/Activity/Operation, provides the name of the activity
- Column 3, Scenario and Number of Operations/day, contains an estimate of the number of actions anticipated during the course of a day.
- Column 4 lists the DAAC launch critical or launch essential scenario that the test will cover, and the EGS test case which applies.
- Column 5+ are divided into hours and the shaded areas represent the time of start of the action and the time it will take to complete the process is variable. It may also be noted that even though the number of operations given in column 3 is accurate, based on the available information, **the indicated times are arbitrary**

Updated 5/26/98

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#	Task/Activity/Operation	Number of operations / day <sup>1</sup>	Scenario/ Test case	24 Hour Operations Period (EST)																							
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11	Cross DAAC data Transfer Ingest and Archive MODIS subsetting data from GSFC (TBD)	Once a day or as needed	LC-30 LC-37																								
12	Ingest and Archive external ancillary data for MISR product generation (TBD)	Once a day or as required	LC-5																								
13	Ingest and Archive MOPITT products from MOPITT SCF	Once a day or as needed	LC-8																								
14	Data product generation for MISR	Every orbit	LC-7																								
15	DAAC QA/QC and archive for MISR products	Every orbit	LC-36																								
16	MISR Science QA at SCF	As required	LC-15																								
17	Inventory update and advertise	Variable	##																								
18	Error handling in ingest, product generation and archive	As required	##																								

## Part of Ingest and Archive Scenarios

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19	User Access, System security	Variable	LC-24																								
20	Search, Browse (CERES MOPITT, MISR data or similar data)	Variable	LC-16 LC-17 LC-18																								
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26	User support (help line)	Variable	???																								
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28	Processing Science algorithm Change	As Needed	LC-21																								

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29	SSI&T for New PGE	As Needed	LC-26																								

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